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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|-------------|----------------------|---------------------|------------------|
| 10/659,017 | 09/11/2003 | Paul Lapstun | IP37US | 3019 |
| 24011 | 7590 | 07/01/2005 | EXAMINER | |
| SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA | | | GRANT II, JEROME | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 2626 | |

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|------------------------|---------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/659,017 | LAPSTUN ET AL. |
| | Examiner | Art Unit |
| | Jerome Grant II | 2626 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 24 March 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-5 is/are rejected.
- 7) Claim(s) 6-10 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

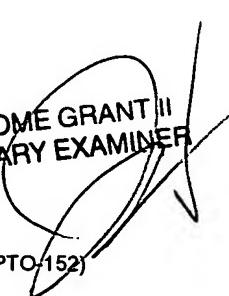
- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.

- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application (PTO-152)
 6) Other: _____.



JEROME GRANT II
PRIMARY EXAMINER

Detailed Action

1.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rampuria in view of Dvorzsak.

With respect to claim 1, Rampuria teaches an integrated circuit fabricated on a substrate 10. See the housing circuit for a plurality of boards taught at col. 3, lines 63-69. Rampuria teaches the substrate 10 comprising a first interface (12) or printer interface 40 for the purpose of interfacing with a plotter/printer 38 ; and a general processor (microprocessor 14 or communication controller 20) which is connected to

the first interface where the processor runs software beginning at col. 3, lines 63 that controls the interface as well as other components of the substrate 10.

What is not specifically taught is that the printer 38 is an inkjet printer, although it is inferred.

Dvorzsak teaches integrated circuits 201 and 223 and a first interface 241 for operating a inkjet print head 233 and 237. Dvorzsak teaches a processor 243 for controlling the interface 241.

Since Rampuria and Dvorzsak are both directed toward integrated circuits with interfaces for causing print data to be printed by a printing means, the purpose of printing by using an ink printer would have been contemplated by Rampuria as specifically set forth by Dvorzsak.

It would have been obvious to one of ordinary skill in the art to replace printer/plotter 38 with the inkjet printer 230-237 for the purpose of printing with a inkjet printhead that is placed in a page width direction as performed by Dvorzsak

With respect to claim 2, Rampuria teaches printing pages in a stream mode. See col. 3, lines 23-26.

With respect to claim 3, Rampuria teaches, according to col. 9, lines 10 that a threshold memory is a FIFO with 32 words of memory for printing at least a single page. So that when the data in the FIFO fills up, it is printed out. Hence the threshold is 32 words.

With respect to claim 4, Rampuria teaches a memory threshold of 32 words

With respect to claim 5, Rampuria teches a 6 MB memory which anticipates the user of 3 MB memory, see col. 4, lines 38-43.

2.

Claims Objected

Claims 6-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

3. Examiner's Remarks

At issue is the use of the term "substrate". By definition of the term, a substrate is a horizontal support member or a base upon which something rests. Rampuria teaches that element 10 is a housing for holding the bus 12, the printer interface 40 and the microprocessor 14. The applicant seems to be of the opinion that the housing cannot be the substrate. Based upon the broad definition of the term "substrate", the bottom portion of the housing 10 is the substrate upon which the examiner is relying upon for the support of the rejection for the claimed invention. The bottom of housing 12 is the single housing of which it contains a bottom (inherent) for holding the elements.

Does applicant intend to claim that the elements of the claim are integrated within the same micro-chip ? If so, this would distinguish over Rampuria.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

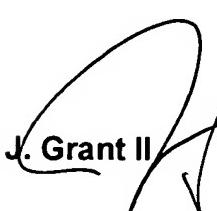
TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

4.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerome Grant II whose telephone number is 703-305-4391. The examiner can normally be reached on Mon.-Fri. from 9:00 to 5:0.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kimberly A Williams, can be reached on 703-305-4863. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



J. Grant II

JEROME GRANT II
PRIMARY EXAMINER